

10	20	30	40	50	60	70	
MMQKLQMYVYIYLFLMIIAGPV	DLNEGSEREEENVEKEGLCNACAWRQNTRYSRIEAIKIQILSKLRLTAPNISKDA						Murine
MIQKIPOMYVYIYLFLMIIAGPV	DLNEDSEREAENVEKEGLCNACAWRQNTRYSRIEAIKIQILSKLRLTAPNISKDA						Rat
M-QKLQLCIVYIYLFLMIVAGPV	DLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQILSKLRLTAPNISKDA						Human
M-QKLQLCIVYIYLFLMIVAGPV	DLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQILSKLRLTAPNISKDA						Baboon
M-QKLQLCIVYIYLFLMIVAGPV	DLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQILSKLRLTAPNISKDA						Bovine
M-QKLQLCIVYIYLFLMIVAGPV	DLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQILSKLRLTAPNISKDA						Porcine
M-QKLQLCIVYIYLFLMIVAGPV	DLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQILSKLRLTAPNISKDA						Ovine
M-QKLQLCIVYIYLFLMIVAGPV	DLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQILSKLRLTAPNISKDA						Chicken
M-QKLQLCIVYIYLFLMIVAGPV	DLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQILSKLRLTAPNISKDA						Turkey
M-QKLQLCIVYIYLFLMIVAGPV	DLNENSEQKENVEKEGLCNACTWRQNTKSSRIEAIKIQILSKLRLTAPNISKDA						Zebrafish
MHFTQ	MLISLISVLIAGPVGYGDI	TAHQQPSTATEESEL	STOEFROHSKILMRLHAIKSQILSKLRIKQAPNISRDV				
80	90	100	110	120	130	140	150
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Murine
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Rat
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Human
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Baboon
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Bovine
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Porcine
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Ovine
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Chicken
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Turkey
IRQLLPAPPLRELIDQYDVRDDSSDGSLEDDDYHATTETIIITMPTESDFLMQ	ADGKPCCFFKFSSKIQYNKVVKAQL						Zebrafish
160	170	180	190	200	210	220	230
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Murine
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Rat
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Human
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Baboon
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Bovine
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Porcine
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Ovine
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Chicken
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Turkey
WIYLRPVKTPPTTVFQILRLIKPMKDGTTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNLWKQPESNLGIEIKALDENGD							Zebrafish
240	250	260	270	280	290	300	310
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Murine
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Rat
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Human
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Baboon
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Bovine
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Porcine
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Ovine
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Chicken
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Turkey
LAVTFPGPGEDGLNPFL	EVKVTDTPKRSRRDFGLDCDEHSTESRCCRYPLTVDFEA	FGWDWI	IAPKRYKANYCSGECE	FV			Zebrafish
320	330	340	350	360	370		
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Murine
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Rat
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Human
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Baboon
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Bovine
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Porcine
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Ovine
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Chicken
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Turkey
FLQKYPHTHLVHQANPRGSAGPCCTPTKMSPINM	LYFNGKEQIIYGKIPAMVVDRCGCS						Zebrafish

FIG. 1

	250	260	270	
238	L A V T F P G P G E D G L N P F L E V K V T D T P K R S R R			
236	L A V T S T E T G E D G L L P F M E V K I S E G P K R I R R			
20	L A V T S A E A G E - G L Q P F M E V T I S E G P K R S R R			
1	- - V T S T E A G E - G L Q P F M E V K I S E G P K R S R R			
	280	290	300	
268	D F G L D C D E H S T E S R C C R Y P L T V D F E A F G W D			
266	D S G L D C D E N S S E S R C C R Y P L T V D F E D F G W D			
49	D S G L D C D E N S P E S R C C R Y P L T V D F E D F G W D			
28	D S G L D C D E N S P E S R C C R Y P L T V D F E D F G W D			
	310	320	330	
298	W I I A P K R Y K A N Y C S G E C E F V F L Q K Y P H T H L			
296	W I I A P K R Y K A N Y C S G E C D Y M Y L Q K Y P H T H L			
79	W I I A P K R Y K A N Y C S G E C E Y M H L Q K Y P H T H L			
58	W I I A P K R Y K A N Y C S G E C E Y M H L Q K Y P H T H L			
	340	350	360	
328	V H Q A N P R G S A G P C C T P T K M S P I N M L Y F N G K			
326	V N K A S P R G T A G P C C T P T K M S P I N M L Y F N G K			
109	V N K A N P R G T A G P C C T P T K M S P I N M L Y F N R K			
88	V N K A N P R G T A G P C C T P T K M S P I N M L Y F N R K			
	370			
358	E Q I I Y G K I P A M V V D R C G C S			
356	E Q I I Y G K I P S M V V D R C G C S			
139	E Q I I Y G K I P S M V V D R C G C S			
118	E Q I I Y G K I P S M V V D R C G C S			

FIG. 2 (cont.)

				10	20	30	
31	M M Q K L Q M Y V Y I Y L F M L I A A G P V D L N E G S E R						
28	M H F T Q - - V L I S L S V L I A C G P V G Y G D I T A H						
1	- - - - -						
1	- - - - -						
				40	50	60	
58	E E - - N V E K E G L C N A C A W R Q N T R Y S R I E A I						
58	Q Q P S T A T E E S E L C S T C E F R Q H S K L M R L H A I						
1	- - - - -						
1	- - - - -						
				70	80	90	
58	K I Q I L S K L R L E T A P N I S K D A I R Q L L P R A P P						
58	K S Q I L S K L R L K Q A P N I S R D V V K Q L L P K A P P						
1	- - - - -						
1	- - - - -						
				100	110	120	
88	L R E L I D Q Y D V Q R D D S S D G S L E D D D Y H A T T E						
88	L Q Q L L D Q Y D V L G D D S K D G A V E E D D E H A T T E						
1	- - - - -						
1	- - - - -						
				130	140	150	
118	T I I T M P T E S D F L M Q A D G K P K C C F F K F S S K I						
118	T I M T M A T E P D P I V Q V D R K P K C C F F S F S P K I						
1	- - - - -						
1	- - - - -						
				160	170	180	
148	Q Y N K V V K A Q L W I Y L R P V K T P T T V F V Q I L R L						
148	Q A N R I V R A Q L W V H L R P A E E A T T V F L Q I S R L						
1	- - - - -						
1	- - - - -						
				190	200	210	
178	I K P M K D G T R Y T G I R S L K L D M S P G T G I W Q S I						
178	M - P V K D G G R H R - I R S L K I D V N A G V T S W Q S I						
1	- - - - -						
1	- - - - -						
				220	230	240	
208	D V K T V L Q N W L K Q P E S N L G I E I K A L D E N G H D						
206	D V K Q V L T V W L K Q P E T N R G I E I N A Y D A K G N D						
1	- - - - -						
1	- - - - -						

FIG. 2